

BARNES & THORNBURG

11 South Meridian Street
Indianapolis, Indiana 46204
(317) 236-1313
(317) 231-7433 Fax

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

<i>Group:</i>	Unknown	}
		}
<i>Confirmation No.:</i>	Unknown	}
		}
<i>Application No.:</i>	Unknown	}
		}
<i>Invention:</i>	REINFORCED SMALL	}
	INTESTINAL SUBMUCOSA (SIS)	}
		}
<i>Applicant:</i>	Plouhar et al.	}
		}
<i>Filed:</i>	September 05, 2003 (herewith)	}
		}
<i>Attorney Docket:</i>	265280- 73406	}
		}
<i>Examiner:</i>	Unknown	}

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

All listed references were cited during prosecution of parent U.S. Application Serial No. 09/918,116 filed July 30, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Therefore, copies of the references are not required pursuant to 37 C.F.R. § 1.98(d).

None of the cited art is believed to disclose or suggest the invention recited in the claims of the above-identified application. It is therefore believed that the claimed invention is patentably distinguishable over these references.

Please charge any fees that might be due in connection with this Information Disclosure Statement to our Deposit Account No. 10-0435, with reference to our matter 30298-72742. An extra copy of this Information Disclosure Statement is enclosed for that purpose.

Respectfully submitted,
BARNES & THORNBURG



Jill T. Powlick
Reg. No. 42,088

Indianapolis, Indiana
(317) 231-7504

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 265280-73406	SERIAL No. Unknown
	APPLICANT Plouhar et al.	
	FILING DATE Sept. 5, 2003 (herewith)	GROUP Unknown

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	3,562,820	Feb. 16, 1971	B. Braun			
	AB	4,400,833	Aug. 20, 1983	Kurland			
	AC	4,902,508	Feb. 20, 1990	Badylak et al.			
	AD	4,956,178	Sep. 11, 1990	Badylak et al.			
	AE	5,275,826	Jan. 4, 1994	Badylak et al.			
	AF	5,281,422	Jan. 25, 1994	Badylak et al.			
	AG	5,352,463	Oct. 4, 1994	Badylak et al.			
	AH	5,372,821	Dec. 13, 1994	Badylak et al.			
	AI	5,445,833	Aug. 29, 1995	Badylak et al.			
	AJ	5,516,533	May 14, 1996	Badylak et al.			
	AK	5,554,389	Sep. 10, 1996	Badylak et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL	WO 97/37613	Oct. 16, 1997	PCT			
	AM	WO 00/16822	Mar. 30, 2000	PCT			
	AN	EP 0 446 105 A2	Jan. 15, 1992	EPO			
	AO	EP 0 734 736 A1	Oct. 2, 1996	EPO			
	AP						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	Hiles et al., "Mechanical properties of xenogeneic small-intestinal submucosa when used as an aortic graft in the dog", <i>Journal of Biomedical Materials Research</i> , Vol. 29, 883-891, (1995)
	AR	Sandusky, et al., "Healing Comparison of Small Intestine Submucosa and ePTFE Grafts in the Canine Carotid Artery", <i>J. Surg. Res.</i> , 58:415-420, (1995)
	AS	Knapp, et al., "Biocompatibility of Small-Intestine Submucosa in Urinary Tract as Augmentation Cystoplasty Graft and Injectable Suspension", <i>J Endourology</i> , 8:125-130, (1994)
	AT	Kropp et al., "Regenerative Bladder Augmentation: A Review of the Initial Preclinical Studies with Porcine Small Intestinal Submucosa", <i>Muscle, Matrix, and Bladder Function</i> . Plenum Press, New York, (1995)
	AU	Kropp et al., "Experimental Assessment of Small Intestinal Submucosa as a Bladder Wall Substitute", <i>Urology</i> 446:396-400, (1995)
	AV	Vaught et al., "Detrusor Regeneration in the Rat Using Porcine Small Intestinal Submucosa Grafts: Functional Innervation and Receptor Expression", <i>J. Urol.</i> , 155:374-378, (1996)
	AW	Kropp et al., "Characterization of Small Intestinal Submucosa Regenerated Canine Detrusor: Assessment of Reinnervation, In Vitro Compliance and contractility, <i>J. of Urol</i> , 156:599-607, (1996)
	AX	Kropp et al., "Regenerative Urinary Bladder Augmentation Using Small Intestinal Submucosa: Urodynamic and Histopathologic Assessment in Long-Term Canine Bladder Augmentations", <i>Journal of Urology</i> , 155:2098-2104, (1996)
	AY	Aiken et al., "Small Intestinal Submucosa as an Intra-Articular Ligamentous Graft Material: A Pilot Study in Dogs", <i>Vet Comp Orthopedics Traumatology</i> , 7:124-128, (1994)
	AZ	Badylak et al., "The Use of Xenogeneic Small Intestinal Submucosa as a Biomaterial for Achille's Tendon Repair in a dog model", <i>J Biomed Materials</i> , 29:977-985, (1995)

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
265280-73406SERIAL No.
UnknownAPPLICANT
Plouhar et al.FILING DATE
Sept. 5, 2003 (herewith)GROUP
Unknown

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	BA	5,573,784	Nov. 12, 1996	Badylak et al.			
	BB	5,591,234	Jan. 7, 1997	Kirsch			
	BC	5,593,441	Jan. 14, 1997	Lichtenstein, et al.			
	BD	5,641,518	Jun. 24, 1997	Badylak et al.			
	BE	5,645,860	Jul. 8, 1997	Knapp, Jr. et al.			
	BF	5,668,288	Sep. 16, 1997	Storey et al.			
	BG	5,693,085	Dec. 2, 1997	Buirge, et al.			
	BH	5,695,998	Dec. 9, 1997	Badylak et al.			
	BI	5,711,969	Jan. 27, 1998	Patel et al.			
	BJ	5,730,933	Mar. 24, 1998	Peterson			
	BK	5,733,868	Mar. 31, 1998	Peterson et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BL						
	BM						
	BN						
	BO						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	BQ	Hodde et al., "The Effect of Range of Motion Upon Remodeling of Small Intestinal Submucosa (SIS) when used as an Achilles Tendon Repair Material in the Rabbit", <i>Tissue Engineering</i> 3, 1:27-37, (1997)
	BR	Ferrand et al., "Directional Porosity of Porcine Small-Intestinal Submucosa", <i>J Biomed Materials Res</i> , 27:1235-1241, (1993)
	BS	Hiles et al., "Porosity of Porcine Small-Intestinal Submucosa for use as a Vascular Graft", <i>J Biomed Materials Res</i> , 27: 139-144, (1993)
	BT	Hodde et al., "Glycosaminoglycan Content of Small Intestinal Submucosa: A Bioscaffold for Tissue Replacement", <i>Tissue Engineering</i> , 2:3, 209-217, (1996)
	BU	Prevel et al., "Small Intestinal Submucosa: Utilization for Repair of Rodent Abdominal Wall Defects", <i>Ann Plast Surg</i> , 35:374-380, (1995)
	BV	Clarke et al., "Intestine Submucosa and Polypropylene Mesh for Abdominal Wall Repair in Dogs", <i>J Surg Res</i> , 60:107-114, (1996)
	BW	Prevel et al., "Small Intestinal Submucosa: Utilization as a Wound Dressing in Full-Thickness Rodent Wounds", <i>Ann Plast Surg</i> , 35:381-388, (1995)
	BX	Cobb et al., "Histology after Dural Grafting with Small Intestinal Submucosa", <i>Surgical Neurology</i> , 46: 389-394, (1996)
	BY	Cobb et al., "Porcine Small Intestinal Submucosa as a Dural Substitute", <i>Surgical Neurology</i> , 51:99-104, (1999)
	BZ	Voytik-Harbin et al., "Application and Evaluation of the AlamarBlue Assay for Cell Growth and Survival of Fibroblasts", <i>Journal of Immunological Methods, In Vitro Cell Bio-Animal</i> , 34: 2399-246, (1998)

Examiner

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 265280-73406		SERIAL No. Unknown	
				APPLICANT Plouhar et al.			
				FILING DATE Sept. 5, 2003 (herewith)		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	CA	5,735,897	Apr. 7, 1998	Buirge			
	CB	5,753,267	May 19, 1998	Badylak et al.			
	CC	5,755,791	May 26, 1998	Whitson et al.			
	CD	5,759,205	Jun. 2, 1998	Valentini			
	CE	5,762,966	Jun. 9, 1998	Knapp et al.			
	CF	5,788,625	Aug. 4, 1998	Plouhar et al.			
	CG	5,855,613	Jan. 5, 1999	Antanavich, et al.			
	CH	5,866,414	Feb. 2, 1999	Badylak et al.			
	CI	5,885,619	Jan. 5, 1999	Caplan, et al.			
	CJ	5,922,028	Jul. 13, 1999	Plouhar et al.			
	CK	5,989,2804	Nov. 23, 1999	Euteneuer, et al.			

FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation Yes No		
CL							
CM							
CN							
CO							
CP							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
CR	Suckow, M.A., "Enhanced Bone Regeneration Using Porcine Small Intestinal Submucosa", <i>J. Invest Surg</i> , 12: 277, (1999)	
CS	Badylak, S., et al., "Naturally Occurring Extracellular Matrix as a Scaffold for Musculoskeletal Repair", <i>Clin Orthop</i> , 367S:S333-S3433, (1999)	
CT	Cook, J.L. et al., "Induction of Meniscal Regeneration in Dogs Using a Novel Biomaterial", <i>Am J Sports Med</i> , 27: 658, (1999)	
CU	Dejardin, L.M. et al., "Use of small intestinal submucosal implants for regeneration of large fascial defects: an experimental study in dogs", <i>J Biomed Mater Res</i> , 46:203-211, (1999)	
CV	Sacks, M.S., et al., "Quantification of the fiber architecture and biaxial mechanical behavior of porcine intestinal submucosa", <i>J Biomed Mater Res</i> , 46:1-10, (1999)	
CW	COOK® News Releases, "COOK® Introduces Innovative Surgisis™ Soft Tissue Repair Biomaterial", (5/21/00)	
CX	COOK® News Releases, "COOK® Oasis™ Wound Dressing Biomaterial From COOK® Remodels Partial Thickness Skin Injuries", (December 23, 1999)	
CY	COOK® News Releases, "Cook Incorporated Forms Dedicated Tissue Engineered Products Group", (February 16, 2000)	
CZ	COOK® News Releases, "FDA Clears Oasis™ Wound Dressing Biomaterial From COOK® For Full-Thickness Skin Injuries", (January 24, 2000)	

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 265280-73406		SERIAL No. Unknown	
				APPLICANT Plouhar et al.			
				FILING DATE Sept. 5, 2003 (herewith)		GROUP Unknown	

U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
DA	6,027,744	Feb. 22, 2000	Vacanti, et al.				
DB	6,056,777	May 2, 2000	McDowell				
DC	6,060,640	May 9, 2000	Pauley et al.				
DD	6,099,567	Aug. 8, 2000	Badylak et al.				
DE	6,171,344	Jan. 9, 2001	Atala				
DF	6,176,880 B1	Jan. 23, 2001	Plouchar, et al.				
DG	6,258,124 B1	Jul. 10, 2001	Darois, et al.				
DH	6,270,530 B1	Aug. 7, 2001	Eldridge, et al.				
DI	6,383,221 B1	May 7, 2002	Scarborough et al.				
DJ	6,409,764 B1	Jun. 25, 2002	White, et al.				
DK	6,497,650 B1	Dec. 24, 2002	Nicolo				

FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation Yes No		
DL							
DM							
DN							
DO							
DP							

OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
DR	
DS	
DT	
DU	
DV	
DW	
DX	
DY	
DZ	

Examiner	Date Considered
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.